

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. (Currently Amended) A recording apparatus for recording video data and audio data corresponding to the video data onto a disc-shaped recording medium, comprising:

data forming means for forming second video data which is data based on first video data and whose transmission rate and resolution are lower than those of said first video data, forming second audio data by compression encoding first audio data, said second audio data having a plurality of channels which is data based on said first audio data having zero, one, or a plurality of channels corresponding to said first video data, the number of channels of said second audio data being set to a fixed value independent of change of the number of channels of said first audio data during recording process, and whose transmission rate is lower than that of said first audio data, and outputting data of a low rate in which said second video data and said second audio data have been multiplexed,

wherein the number of channels of said second audio data is not less than the number of channels of said first audio data; and

recording means for recording said first video data, said first audio data, said low-rate data, and meta data corresponding to the first video data and first audio data onto the disc-shaped recording medium,

wherein said first video data, said first audio data, said low-rate data, and said meta data are recorded in continuous areas on the disc-shaped recording medium and are recorded in a particular sequence,

wherein annual ring data of said first audio data, annual ring data of said first video data, annual ring data of said low-rate data, and annual ring data of said meta data are recorded in order from an inner rim side of the disc-shaped recording medium.

2. (Previously Presented) A recording apparatus according to claim 1, wherein said data forming means forms audio data showing silence to the channels which do not correspond to the channels of said first audio data among said plurality of channels of said second audio data and outputs said low-rate data in which said second video data and said second audio data including the channels of the audio data showing said silence have been multiplexed.

3. (Currently Amended) A recording method of recording video data and audio data corresponding to the video data onto a disc-shaped recording medium, comprising:

a data forming step of forming second video data which is data based on first video data and whose transmission rate and resolution are lower than those of said first video data, forming second audio data by compression encoding first audio data, said second audio data having a plurality of channels which is data based on said first audio data having zero, one, or a plurality of channels corresponding to said first video data, the number of channels of said second audio data being set to a fixed value independent of change of the number of channels of said first audio data during recording process, and whose transmission rate is lower than that of

said first audio data, and outputting data of a low rate in which said second video data and said second audio data have been multiplexed,

wherein the number of channels of said second audio data is not less than the number of channels of said first audio data; and

a recording step of recording said first video data, said first audio data, said low-rate data, and meta data corresponding to the first video data and first audio data onto the disc-shaped recording medium,

wherein said first video data, said first audio data, said low-rate data, and said meta data are recorded in continuous areas on the disc-shaped recording medium and are recorded in a particular sequence,

wherein annual ring data of said first audio data, annual ring data of said first video data, annual ring data of said low-rate data, and annual ring data of said meta data are recorded in order from an inner rim side of the disc-shaped recording medium.

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